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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/612,729	07/02/2003	Kevin T. Chan	14227US01	5781
MCANDREWS 500 WEST MA	7590 01/24/200 S HELD & MALLOY, ADISON STREET		EXAMINER DAVENPORT, MON CHERI S	
SUITE 3400 CHICAGO, IL 60661		. (1)	ART UNIT	PAPER NUMBER
,			2616	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)
	10/612,729	CHAN, KEVIN T.
Office Action Summary	Examiner	Art Unit
	Mon Cheri S. Davenport	2616
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence address
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period v Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from , cause the application to become AB ANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).
Status		
 1) ⊠ Responsive to communication(s) filed on 31 A 2a) ☐ This action is FINAL. 2b) ⊠ This 3) ☐ Since this application is in condition for alloware closed in accordance with the practice under E 	action is non-final nce except for formal matters, pro	
Disposition of Claims	·	,
4) ☐ Claim(s) 1-30 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-30 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or Application Papers 9) ☐ The specification is objected to by the Examine 10) ☐ The drawing(s) filed on is/are: a) ☐ according to the application.	wn from consideration. r election requirement.	-xaminer
Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex	drawing(s) be held in abeyance. Section is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list 	s have been received. s have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Do 5) Notice of Informal F 6) Other:	ate

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Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1-30 rejected under 35 U.S.C. 102(b) as being anticipated by Bontemps et al. (US Patent Number 5,923,663).

It is noted that the language used by Applicant merely suggests or makes optional those features described as "capable of" or "adapted to"; such language does not require steps to be performed nor limits the claim to a particular structure. In re Hutchison, 69 USPQ 138. See

MPEP 2111.04.

Regarding *Claims 1, 11, and 21* Bontemps et al. discloses a method for providing and configuring communication links, the method comprising:

determining any one usable media pair from all existing media pairs(Ethernet 100Base-T4) of a first device(see, figure 3, see col 12, lines 35-38, the Ethernet 100base-t4 configuration, of a automatic media detection circuit(see col. 3, lines 44-46, established a working communication link) working communication link reads on usable media pair);

selecting any one channel (see figure 3, contact pairs 314 to contact pairs 312, signal pairs 322a-d) from all existing channels (see figure 3, different channels from 314 to 312), said selected any one channel being different from a general channel assignment corresponding to

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said determined any one usable media pair (see col. 12-13, lines 58-7, the select logic (reads on channel assignment), select and connect the contact pairs); and

assigning said selected any one channel to said any one media pair(see col. 13, lines 30-36, the logic state machine(figure 4), is provided for each of the ports, a link detect signal asserts a xover _selx signal, which reads on the when the channels are assigned to the media pair, (working communication link)).

Regarding Claims 2, 12 and 22 Bontemps et al. discloses everything as claimed above (see claims 1, 11 and 21). In addition, the method includes:

wherein said determining further comprises monitoring at least said any one usable media pair(see col. 14, lines 46-54, Phy device knows (which reads on monitoring) when communication signals are lost).

Regarding Claims 3, 13 and 23 Bontemps et al. discloses everything as claimed above (see claims 2, 12 and 22). In addition, the method includes:

wherein said monitoring further comprises detecting an existence of a communication signal on said any one usable media pair(see col 4, lines 46-54, when communication signals are lost, DFF toggles until link is detected,)

Regarding Claims 4, 14 and 24, Bontemps et al. discloses everything as claimed above (see claims 1, 11, and 21). In addition, the method includes:

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further comprising determining which one of said all existing media pairs is capable of facilitating communication at a maximum communication speed (see column 6, lines 6-14, a combination of protocols is also contemplated, the ports may include a first set of ports 10based-T and a second 100Base-TX).

Regarding Claims 5, 15, and 25, Bontemps et al. discloses everything as claimed above (see claims 4, 14, and 24). In addition, the method includes:

further comprising cross-connecting said selected any one channel to said one of said all existing media pairs capable of facilitating communication at a maximum communication speed (see column 5-6, line 64-5, each PHY device of each ports would include a crossover function, which includes the appropriate MDI(medium dependant interface, for connecting the appropriate physical medium, which reads on maximum communication speed when appropriate).

Regarding Claim 6, 16, 26, Bontemps et al. discloses everything as claimed above (see claims 1, 11, and 21). In addition, the method includes:

further comprising determining which one of said all existing media pairs is capable of operating at a reduced communication speed(see column 6, lines 6-14, a combination of protocols is also contemplated, the ports may include a first set of ports 10based-T and a second 100Base-TX).

Regarding Claims 7, 17 and 27, Bontemps et al. discloses everything as claimed above (see claims 6, 16 and 26). In addition, the method includes:

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further comprising cross-connecting said selected any one channel to said one of said allexisting media pairs (see col. 13, lines 9-28, table of crossover configurations) capable of operating at said reduced communication speed (see column 6, lines 6-14, a combination of protocols is also contemplated, the ports may include a first set of ports 10based-T and a second 100Base-TX).

Regarding Claims 8, 18 and 28, Bontemps et al. discloses everything as claimed above (see claims 1, 11, and 21). In addition, the method includes:

flipping at least one of a channel and a media pair assignment (DFF, figure 4) of a previously defined general channel and media pair configuration which defines channel and media pair assignments for at least a portion of said all existing media pairs (see figure 4, section DFF (D-type flip-flop), see col., 13-14, lines 60-2, the DFF asserts the Xover_sel1 signal at its output, it receives the assignment signal xover_sel, see also col. 14, lines 46-53, the DFF is in toggle mode, toggling (reads on negotiating) the xover_sel1 signals)); and

defining said flipped at least one said channel and said media pair assignment as a default channel and media pair configuration(see col. 14, lines 41-45, the PHY device detect a valid communication, and latches (reads on current default channel), to maintain communication link)

Regarding Claims 9, 19, and 29, Bontemps et al. discloses everything as claimed above (see claims 1, 11, and 21). In addition, the method includes:

further comprising identifying a status of at least one of said all existing media pairs and at least one of said all existing channels (see column 3, lines 50-52, the physical layer device

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monitors its receive input for transmitted communication signals and provided a link detect signal indicative thereof).

Regarding Claims 10, 20, and 30, Bontemps et al. discloses everything as claimed above (see claims 9, 19, and 29). In addition, the method includes:

further comprising storing said identified status (see column 3, lines 50-52, the physical layer device monitors its receive input for transmitted communication signals and provided a link detect signal indicative thereof, which reads on storing of status, see also col. 13, lines 30-45, the LINK_DETECTx signals are used in a logic state machine, which stores current state of the ports).

Citation of Pertinent Prior Art

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Dove et al. (US Patent Number 6,175,865) automatic configuring media connections.

Berman et al. (US Patent Number 7,127,624) management of media pairs using MDIX.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mon Cheri S. Davenport whose telephone number is 571-270-1803. The examiner can normally be reached on Monday - Friday 8:00 a.m. - 5:00 p.m. EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Seema Rao can be reached on 571-272-3174. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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MD/md January 20, 2008

SEEMA S. RAO

SUPERMESHY PATENT EXAMMER
TECHNULOUS CONTROL 2000